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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,866	07/02/2003	Paula L. Kolck	02-2453	4386
8840	7590 01/06/2006		EXAMINER	
	EAMANS CHERIN & CHNICAL CENTER	TRAN, LEN		
100 TECHNICAL DRIVE			ART UNIT	PAPER NUMBER
ALCOA CEN	NTER, PA 15069-0001		1725	

DATE MAILED: 01/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>					
		Application No.	Applicant(s)		
Office Action Comments		10/612,866	KOLEK ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Len Tran	1725		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status					
2a)☐	Responsive to communication(s) filed on 10/6/2 This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-24</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrav  Claim(s) <u>22-24</u> is/are allowed.  Claim(s) <u>1,5-16 and 19-21</u> is/are rejected.  Claim(s) <u>2-4, 17-18</u> is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10) 🗌	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the output of the country of the specific or declaration is objected to by the Examine.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119		·		
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —			
	r No(s)/Mail Date	6) Other:	, ,		

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### **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election with traverse of group I in the reply filed on 5/4/05 is acknowledged. The traversal is on the ground(s) that these groups do not require different searches. This is not found persuasive because the product can be introduced to oxidation after casting and the apparatus can be used to make magnesium article.

The requirement is still deemed proper and is therefore made FINAL.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 5, and 6, are rejected under 35 U.S.C. 102(b) as being anticipated by JP 402037954.

As to claim 1, JP '954 discloses contacting the molten aluminum with a humidified atmosphere and solidifying the molten aluminum alloy (abstract).

As to claim 5, aluminum is solidified by casting.

As to claim 6, the casting method is low pressure casting.

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## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 7-8, 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '954.

JP '954 discloses the method of casting aluminum with a humidified atmosphere.

JP '954 fails to teach the casting temperature, magnesium concentration aluminum type, and further working on the solidified product.

Casting with any type of aluminum alloy would have been obvious, since JP '954 discloses the method of casting with aluminum alloy.

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Furthermore, the casting temperature would have been obvious, since it is always

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above the solidus temperature of the alloy. Therefore, choosing a range above the solidus

temperature depends on the design expediency.

7. Claims 9-11 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable

over JP '954 in view of JP 2-274846.

JP '954 discloses the claimed invention above, but fails to teach Mg content and

cold rolling.

However, JP '846 discloses using magnesium with content between 0.8-1.5% and

followed by cold rolled reduction for the purpose of having good surface quality.

Therefore, it would have been obvious at the time applicant's invention was made

to have magnesium content between 0.8-1.5% and cold rolled as taught by JP '846, in JP

'954, in order have good surface quality.

Allowable Subject Matter

8. Claims 2-4, 17-18, and 22-24 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Response to Arguments

9. Applicant's arguments, see response, filed 10/6/05, with respect to the rejection(s)

of claim(s) 1, 5-16, and 19-21 under 102(b) have been fully considered and are

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persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made as set forth above.

### Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Len Tran
Primary Examiner
Art Unit 1725

December 22, 2005